

Owing to the tardy publication of the P. Z. S. in the first half of the fifties this fate has unfortunately befallen many of Deshayes' new names. I have already pointed out their wholesale massacre in the *Mastridae*.<sup>1</sup>

Two other species of *Donax*, described by Reeve from the Hanley collection, are also synonymous with *contusus*: the types of both are also before me—they are:

*D. vellicatus* Reeve, pl. ix, sp. and fig. 66 and *D. bitinctus* Reeve, pl. ix, sp. and fig. 68, both dating from June, 1855.

It may be noted that Reeve erroneously gives his specific names in *Donax* the feminine gender, the word *δόναξ* being masculine.

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#### PRELIMINARY LIST OF THE MOLLUSCA OF JASPER PARK, ALBERTA

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The molluscs listed below were collected in Jasper National Park, Alberta, during the summer of 1925. This area is situated at about 53° N. Lat. and 118° W. Long. and is thus in the Rocky Mountains about three hundred miles north of the International Boundary. The elevation of the area collected over is between 3000 and 7000 feet and the lakes and streams examined all belong to the Mackenzie River drainage system. The life-zones present in this district are the Canadian, Hudsonian and Arctic Alpine, the tree line being as low as 6500 feet. The Transition Zone apparently does not occur, even in the bottoms of the valleys. Three terrestrial species were found within the Arctic Alpine, namely, *Euconulus chersinus polygyratus* Pils., *Vitrina limpida* Gould, and *Gonyodiscus cronkhitei anthonyi* Pils. These species, however, are by no means confined to this zone. The only previous mollusc records from this northern district are those of Baker (Bull. Amer. Mus.

<sup>1</sup> Journ. of Conch., xvii, p. 134.

Nat. Hist., Vol. XIII, pp. 527-539) from Brazeau<sup>1</sup> River and Lake, Alberta, which is in the Hudson Bay drainage. Considerable information relating to the habitat preferences and other phases of the ecology of these forms was collected, but is reserved for a future paper after additional observations have been made. It is thought that as no collecting has been done previously in this area of the Mackenzie basin in the mountains the present list is worthy of placing on record. I am indebted to Drs. Bryant Walker, Victor Sterki and F. C. Baker for aid in the determination of this material.

#### GASTROPODA

##### Family PUPILLIDAE

*Vertigo modesta* (Say). Signal Mountain, 4000 feet; near Cabin Creek.

*Vertigo ovata* Say. Lake between Patricia and Pyramid Lakes; near Hibernia Lake.

*Columella alticola* (Ing.). Signal Mountain, 4000 feet.

##### Family ZONITIDAE

*Vitrina limpida* Gould. Signal Mountain, 6700-7000 feet; north of Mount Edith Cavell, 6600 feet; creek from Lake Marjorie.

*Polita hammonis* (Strom.). Cabin Creek; creek from Lake Marjorie.

*Polita binneyana* (Morse). Creek from Lake Marjorie.

*Euconulus chersinus polygyratus* Pils. Cabin Creek; Signal Mountain, at 4000 feet, and within Arctic Alpine at 6700-7000 feet; Caledonia Creek.

*Zonitoides arborea* (Say). Unnamed lake one mile directly north of Geikie, Alta.

##### Family ENDODONTIDAE

*Gonyodiscus cronkhitei anthonyi* Pils. Creek from Lake Marjorie; Signal Mountain, 4000 feet, and 6700-7000 feet; Cabin Creek; near Geikie.

<sup>1</sup> In Baker's paper the locality was given as "Brazean"; Mr. Baker informs me that this was a typographical error, the shells actually being from Brazeau River and Lake.

## Family SUCCINEIDAE

- Succinea retusa* Lea. Unnamed lake north of Geikie.  
*Succinea avara* Say. Unnamed lake north of Geikie.  
*Succinea vermata* Say. Near Lake Edith; unnamed lake north of Geikie.

## Family LYMNAEIDAE

*Lymnaea stagnalis appressa* Say. Lakes Marjorie, Pyramid, Mildred, Wabasso.

\**Lymnaea emarginata canadensis* Sow. Lake Edith; Twin Lake, near Medicine; Lake between Patricia and Pyramid Lakes.

\**Lymnaca traskii* Tryon. Twin, Wabasso, Edith and Maligne Lakes.

*Lymnaea obrussa decampi* St. Lakes Edith, Caledonia, Mildred. In stomach of a Dolly Varden trout (*Salvelinus parkei* Suck.) from Jacques Lake.

\**Lymnaea parva sterkii* Baker. Creek running from Jacques Lake.

\**Lymnaca dalli* Baker. Lake between Patricia and Pyramid Lakes; unnamed lake north of Geikie.

## Family PLANORBIDAE

*Planorbis exacuus* Say. Lakes Hibernia, Marjorie, Iris and the larger Trefoil Lake. Unnamed lake north of Geikie.

*Planorbis hirsutus* Gould. Lake between Patricia and Pyramid Lakes.

*Planorbis parvus* Say. Lakes Hibernia, Mildred, Patricia, Edith, Annette, Wabasso, Pyramid, and the larger Trefoil Lake. In stomach of Rainbow trout (*Salmo irideus* Gibb.) from Wabasso Lake.

\**Planorbis crista* Linne. Virl and the smaller Trefoil Lakes.

## Family PHYSIDAE

*Physa heterostropha* Say. Lakes Edith, Annette, Virl, Dorothy, Caledonia, Mildred, Pyramid.

*Physa gyrina* Say. Lakes Marjorie and Mildred.

*Physa* sp. Wabasso Lake, in stomach of Rainbow trout (*Salmo irideus* Gibb.).

## Family ANCYLIDAE

\**Ancylus hendersoni* Walker. Lake Iris, altitude 4285 feet.

## Family VALVATIDAE

*Valvata lewisi* Curr. Hibernia, Mildred, and Patricia Lakes.

## PELECYPODA

## Family SPHAERIIDAE

*Pisidium compressum* Prime. Unnamed lake north of Geikie.

\**Pisidium variabile brevis* St. Lakes Caledonia and Hibernia.

*Pisidium scutellatum* St. Lake Patricia.

\**Pisidium roperi* St. Lake between Patricia and Pyramid Lakes.

\**Pisidium tenuissimum* Prime. Edith and the larger Trefoil Lake. Unnamed lake north of Geikie.

\**Pisidium rotundatum* Prime. Larger Trefoil Lake; lake between Patricia and Pyramid Lakes.

Those species marked with an asterisk are recorded for the first time from the Mackenzie River drainage. The discovery of *Ancylus hendersoni* Walker, in this region is of some interest, since this genus, in its modern usage, has only once been recorded from the North American continent. The previous record being from Eldora Lake, Boulder Co., Colo. (Occ. Papers, Mus. Zool., Univ. Mich., No. 165, 1925.) Dr. Walker very kindly identified this species for me.

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**SOME MOLLUSKS FROM WESTERN CANADA**

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In the course of an investigation into the constitution, origin and ecology of the mollusk fauna of the northern part of North America, a list was made of the species in my collection from the Transition life-zone. Since this list includes a number of species which have never been recorded from this region, considerably extends the known distribution of others, and gives